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FACILITY ENGINEERING CONSULTANTS
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COLUMBUS, OHIO 43215**

December 09, 2015

ADDENDUM #1

**TO THE SPECIFICATIONS & DRAWINGS FOR
Replace Outdated HVAC Equipment
VA Project Number: 538-14-101**

TO ALL BIDDERS:

This Document supplements and amends the original Drawings and Specifications issued and dated August 19, 2015 and shall be taken into account in preparing bids and shall become a part of the Contract Documents.

Specification Revisions

Section 230511 Common Work Results for HVAC

Item 1 Scope of work – Add 2.7-E-3 as follows:

 “Provide with integral disconnect.”

Drawing Revisions

HVAC

Sheet H0-03 Air Handler Details:

- Item 1* Details were hard to read due to the thick lines. Air Handler Details for Building 24, Reference Addendum Sheets R1-H0-03-1.
- Item 2* Details were hard to read due to the thick lines. Air Handler Details for Building 30, Reference Addendum Sheets R1-H0-03-2.
- Item 3* Details were hard to read due to the thick lines. Air Handler Details for Building 30, Reference Addendum Sheets R1-H0-03-3.
- Item 4* Details were hard to read due to the thick lines. Air Handler Details for Building 31, Reference Addendum Sheets R1-H0-04-1.
- Item 5* Details were hard to read due to the thick lines. Air Handler Details for Building 31, Reference Addendum Sheets R1-H0-04-2.

Pre-Bid Questions:

Item 1:

Pre-Bid Question: Is there a Ceiling Layout so we can bid how many lights need to be removed and replaced?

Response: Ceiling layout isn't provided as the layouts vary and any lights that are removed for installation of items in ceiling may be reused/re-installed unless damaged. Any damaged items will need replaced.

Item 2:

Pre-Bid Question: Need ceiling tile make and type in case any have to be replaced?

Response: The station typically utilizes Armstrong 755B ceiling tiles, however this is for reference only not a brand name justification. The chosen prime contractor will be required to field verify the exact tile for each area of work contained in the contract and match existing.

Item 3:

Pre-Bid Question: Do we have to remove existing furniture, pictures, etc. and replace in room for the required work or will they be empty?

Response: Contractor will need to assume the rooms will not be empty and the existing items in room will require protection to prevent damage. Contractor will need to coordinate with COR.

Item 4:

Pre-Bid Question: We will need wall color schedules to repaint rooms corner to corner from patch work?

Response: The color schedule will depend on the room and area to be repainted as to corner to corner. Refer to the paint specification and match to existing where required.

Item 5:

Pre-Bid Question: Please clarify that existing panel " BMCP" is to be replaced with new in same location.

Response: Existing panel "BMCP" is to remain as shown on single line diagrams for demo E0-04 and new work on E0-05.

Item 6:

Pre-Bid Question: Drawing E0-04: not indicated to be DEMO.

Response: Existing panel "BMCP" is to remain as shown on single line diagrams for demo E0-04 and new work on E0-05.

Item 7:

Pre-Bid Question: Drawing E0-05: General Note A listed to be replaced, coded note 4 indicates (3 total) new circuit breakers to be installed in existing.

Response: On drawing sheet E0-05 remove from single line general notes A, panel BMCP

Item 8:

Pre-Bid Question: Drawing E1-10: Plan Note 5 indicates demo & replace.

Response: On drawing sheet E1-10 remove the word demo above BMCP text and remove demo coded note #5 from BMCP panel.

Item 9:

Pre-Bid Question: All VFD'S are to be provided by HVAC including pumps 31-P1, P2, P3, P4, there are no specifications listed under division 26.

Response: VFD specification listed under 230511-2.7 specification section. The single prime contractor is responsible for all work and coordination of all vendors and subcontractors.

Item 10:

Pre-Bid Question: Verify that all VFD'S have integral or external disconnects provided as part of unit.

Response: All VFD's shall have integral disconnects provided as part of the VFD.

Add 230511-2.7-E-3: "Provide with integral disconnect."

Item 11:

Pre-Bid Question: Verify that all VFD'S are installed by Electrical Contractor.

Response: The single prime contractor is responsible for all work and coordination of all vendors and subcontractors.

Item 12:

Pre-Bid Question: Per Electrical notes "temporary remove existing lighting in drop ceiling to allow for the removal and re-installation of mechanical terminal box", Is it possible to determine that removal of lighting will be necessary or can mechanical work be completed without any removal of lighting, this work is listed at 31 Bldg 2nd and 3rd floor area Drawing E2-12 & E2-13.

Response: In the worst case situations, the lighting will need to be removed.

Item 13:

Pre-Bid Question: Verify that all new fan coil units are direct replacement & will have the same "footprint" so that no new core drilling for electric through the floor will be required.

Response: The general intent is to have these directly replaced, although this would be dependent upon the manufacturer selected. Contractor is responsible to coordinate work.

Item 14:

Pre-Bid Question: Any and all "temperature control" work is not furnished or installed by division 26 electrical contractor.

Response: The single prime contractor is responsible for all work and coordination of all vendors and subcontractors.

Item 15:

Pre-Bid Question: Verify anticipated temporary trailer/container location for power requirements.

Response: There would be possibility of trailer in the engineering area with electric hook up but would have to be coordinated during pre-construction conference.

Item 16:

Pre-Bid Question: Can you please provide photos of the VAV boxes, Dual Duct boxes, and Fan coil units to include piping and duct connections?

Response: Pictures of a typical unit attached as requested but does not constitute every possible variations of these items.

Item 17:

Pre-Bid Question: Are Vega Propress fitting acceptable for the copper heating and chilled water lines on this project?

Response: These types of fittings are not acceptable per current VA specifications.

Item 18:

Pre-Bid Question: Are Grooved fittings allowed on piping?

Response: See specification 232113-2.3.

Item 19:

Pre-Bid Question: Who is responsible for controls integration?

Response: See sheet H0-06, BacNet System Architecture detail, coded note E.

Item 20:

Pre-Bid Question: Who was the basis of design on the units?

Response: The basis of design for the air handling units was Air Zone International.

Item 21:

Pre-Bid Question: Can you publish the site visit list on FBO?

Response: Attached.

Item 22:

Pre-Bid Question: Drawing H2-05: What are the pipe sizes on the branches off of the mains? The mains are sized but not the branches.

Response: Fan Coils FC-A through FC-D and FC-F through FC-H shall have a minimum of $\frac{3}{4}$ " piping for the cooling and heating branch lines. FC-E shall have a minimum of 1" piping for the cooling and heating branch lines.

++END OF ADDENDUM++